CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-03/592d/CEMENT/2017-18 Date: 15.03.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements of asphalting at Kalyana Nagara and surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/000032/2017-18 Dated: 22.02.2018
* Sample ID	:	Cement
Sample Received on	:	13.03.2018
Period of Testing	:	13.03.2018 to 15.03.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-03/592d/SAND-Gradation/2017-18

15.03.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of Work	: Improvements of asphalting at Kalyana Nagara and surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/PD/WO/000032/2017-18 Dated: 22.02.2018
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 13.03.2018
Date of Testing	: 15.03.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.30	90-100	90-100	90-100	95-100
2.36	78.10	60-95	75-100	85-100	95-100
1.18	56.60	30-70	55-90	75-100	90-100
600 Micron	38.10	15-34	35-59	60-79	80-100
300 Micron	17.90	5-20	8-30	12-40	15-50
150 Micron	4.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Job No: CTCE/BBMP/KRIDL/W.No.13/CSR-03/592d/Precast slab/2017-18 21.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements of asphalting at Kalyana Nagara and surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/000032/2017-18 Dated: 22.02.2018
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	17.03.2018
Date of Testing	:	21.03.2018

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.413	2565.11	1.64	0.961	32.15	16.37	17.68	18.40	23.00
2	50.00	81.00	0.409	2571.63	1.62	0.959	33.50	17.06	18.43	17.67	22.09
3	50.00	79.00	0.395	2546.48	1.58	0.955	34.25	17.44	18.84	17.98	22.48

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-2/2017-18 26.03.2018

TEST REPORT ON GRADATION FOR CLOSE-GRADED GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements of asphalting at Kalyana Nagara and surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/000032/2017-18 Dated: 22.02.2018
* Sample ID	:	Close Graded-II
Technical Reference	:	IS : 2720 (Part - 4) 1985 (RA-2010), MORTH Table : 400-1
Date of Testing	:	26.03.2018

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	0	0	0	100	100
26.5	315	315	6.30	93.70	70-100
9.5	1745	2060	41.20	58.80	50-80
4.75	620	2680	53.60	46.40	40-65
2.36	645	3325	66.50	33.50	30-50
0.425	530	3855	77.10	22.90	15-25
0.075	745	4600	92.00	8.00	3-10
PAN	400				
Total	5000				

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* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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